

Table 1 - Summary of Model Results

Hypothetical 30 ac Site

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	
Land use Scenario	CN	Pre Development Hydrology						Post Development Hydrology						Stormwater Management																
		Flow Rate (cfs)			Runoff Volume (ac-ft)			Flow Rate (cfs)			Runoff Volume (ac-ft)			Conventional		1-yr, 24 Hour Detention		Energy Balance (Fairfax County PFM)												
		1-yr	2-yr	10-yr	1-yr	2-yr	10-yr	1-yr	2-yr	10-yr	1-yr	2-yr	10-yr	Flow Rate (cfs)	Storage Volume (ac-ft)	Flow Rate (cfs)	Storage Volume (ac-ft)	Flow Rate (cfs)		Storage Volume (ac-ft)										
												2-yr	10-yr	2-yr	10-yr	1-yr	2-yr ¹	1-yr	2-yr ¹	1-yr ²	2-yr	10-yr ³	1-yr ²	2-yr	10-yr ³					
Forested	60	4.6	6.8	35	0.79	1.0	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Low Density	70	-	-	-	-	-	-	17	21	60	1.7	2.1	5.5	6.8	35	0.64	1.5	1.7	1.8	0.76	0.97	2.8	3.3	35	0.63	0.83	1.7			
Medium Density	80	-	-	-	-	-	-	40	46	101	3.0	3.5	7.7	6.8	35	1.6	3.1	3.0	3.2	1.5	1.8	1.9	2.0	35	1.7	2.1	3.4			
High Density	90	-	-	-	-	-	-	78	87	158	4.9	5.4	10.2	6.8	35	2.8	4.9	4.9	5.6	2.6	2.9	1.2	1.3	35	3.6	4.1	5.5			

¹ The 2-yr flow rate and associated storage volume determined by routing the 2-yr storm through the 1-yr, 24-hr outlet structure.

² The 1-yr flow rate and associated storage volume determined by routing of the 1-yr storm through the 2-yr Energy Balance outlet structure.

³ The 10-yr flow rate and associated storage volume were developed by matching the peak forested flow rate.